STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

COPY

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _____ *10/575,261*

Source: _____ *TFWP*

Date Processed by STIC: _____ *04/24/2006*

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
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2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

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RAW SEQUENCE LISTING   DATE: 04/24/2006
PATENT APPLICATION: US/10/575,261   TIME: 16:15:41

        Input Set : A:\seq list.txt
        Output Set: N:\CRF4\04242006\J575261.raw

    3 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD.
    5 <120> TITLE OF INVENTION: Fusion protein composition
    7 <130> FILE REFERENCE: 11613WO1
C--> 9 <140> **CURRENT APPLICATION NUMBER: US/10/575,261**
C--> 9 <141> **CURRENT FILING DATE: 2006-04-10**
    9 <150> PRIOR APPLICATION NUMBER: P2003-350158
   10 <151> PRIOR FILING DATE: 2003-10-08
   12 <160> NUMBER OF SEQ ID NOS: 113
   14 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply
Corrected Diskette Needed
(P3 - 1, 2, 4, 5, 6)

ERRORED SEQUENCES

  131 <210> SEQ ID NO: 2   → found 372
  132 <211> LENGTH: 376
  133 <212> TYPE: PRT
  134 <213> ORGANISM: Cricetulus griseus
  136 <400> SEQUENCE: 2
  137 Met Ala His Ala Pro Ala Ser Cys Pro Ser Ser Arg Asn Ser Gly Asp
  138   1   5   10   15
  140 Gly Asp Lys Gly Lys Pro Arg Lys Val Ala Leu Ile Thr Gly Ile Thr
  141   20   25   30
  143 Gly Gln Asp Gly Ser Tyr Leu Ala Glu Phe Leu Leu Glu Lys Gly Tyr
  144   35   40   45
  146 Glu Val His Gly Ile Val Arg Arg Ser Ser Ser Phe Asn Thr Gly Arg
  147   50   55   60
  149 Ile Glu His Leu Tyr Lys Asn Pro Gln Ala His Ile Glu Gly Asn Met
  150 65   70   75   80
  152 Lys Leu His Tyr Gly Asp Leu Thr Asp Ser Thr Cys Leu Val Lys Ile
E--> 153 (85)   85   90   90 95   95 100
  155 Ile Asn Glu Val Lys Pro Thr Glu Ile Tyr Asn Leu Gly Ala Gln Ser
E--> 156   100 105   105 110   110 115
  158 His Val Lys Ile Ser Phe Asp Leu Ala Glu Tyr Thr Ala Asp Val Asp
E--> 159   115 120   120 125   125 130
  161 Gly Val Gly Thr Leu Arg Leu Leu Asp Ala Ile Lys Thr Cys Gly Leu
E--> 162   130 135   135 140   140 145
  164 Ile Asn Ser Val Lys Phe Tyr Gln Ala Ser Thr Ser Glu Leu Tyr Gly
E--> 165 145 150   150 155   155 160   160
  167 Lys Val Gln Glu Ile Pro Gln Lys Glu Thr Thr Pro Phe Tyr Pro Arg
E--> 168 165   165 170   170 175   175 180
  170 Ser Pro Tyr Gly Ala Ala Lys Leu Tyr Ala Tyr Trp Ile Val Val Asn
E--> 171   180 185   185 190   190 195
  173 Phe Arg Glu Ala Tyr Asn Leu Phe Ala Val Asn Gly Ile Leu Phe Asn
          195   200   205

o Invalid Amino Acid numbering

RAW SEQUENCE LISTING   DATE: 04/24/2006
PATENT APPLICATION: US/10/575,261   TIME: 16:15:41

Input Set : A:\seq list.txt
Output Set: N:\CRF4\04242006\J575261.raw

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E--> 174          200              205              210
     176 His Glu Ser Pro Arg Arg Gly Ala Asn Phe Val Thr Arg Lys Ile Ser
E--> 177  210 215            215 220            220 225
     179 Arg Ser Val Ala Lys Ile Tyr Leu Gly Gln Leu Glu Cys Phe Ser Leu
E--> 180 225 230           230 235            235 240            240
     182 Gly Asn Leu Asp Ala Lys Arg Asp Trp Gly His Ala Lys Asp Tyr Val
E--> 183 245            245 250            250 255            255 260
     185 Glu Ala Met Trp Leu Met Leu Gln Asn Asp Glu Pro Glu Asp Phe Val
E--> 186        260 265            265 270            270 275
     188 Ile Ala Thr Gly Glu Val His Ser Val Arg Glu Phe Val Glu Lys Ser
E--> 189  245 280            280 285            285 290
     191 Phe Met His Ile Gly Lys Thr Ile Val Trp Glu Gly Lys Asn Glu Asn
E--> 192  290 295            295 300            300 305
     194 Glu Val Gly Arg Cys Lys Glu Thr Gly Lys Ile His Val Thr Val Asp
E--> 195 305 310           310 315            315 320            320
     197 Leu Lys Tyr Tyr Arg Pro Thr Glu Val Asp Phe Leu Gln Gly Asp Cys
E--> 198 325            325 330            330 335            335 340
     200 Ser Lys Ala Gln Gln Lys Leu Asn Trp Lys Pro Arg Val Ala Phe Asp
E--> 201        240 345            245 350            250 355
     204 Glu Leu Val Arg Glu Met Val Gln Ala Asp Val Glu Leu Met Arg Thr
E--> 205        355 360            260 365            265 370
     207 Asn Pro Asn Ala
E--> 208  370 375
     471 <210> SEQ ID NO: 7
     472 <211> LENGTH: 575
     473 <212> TYPE: PRT
     474 <213> ORGANISM: Cricetulus griseus
     476 <400> SEQUENCE: 7
     477 Met Arg Ala Trp Thr Gly Ser Trp Arg Trp Ile Met Leu Ile Leu Phe
     478  1               5                  10                 15
     480 Ala Trp Gly Thr Leu Leu Phe Tyr Ile Gly Gly His Leu Val Arg Asp
     481              20                 25                 30
     483 Asn Asp His Pro Asp His Ser Ser Arg Glu Leu Ser Lys Ile Leu Ala
     484          35                 40                 45
     486 Lys Leu Glu Arg Leu Lys Gln Gln Asn Glu Asp Leu Arg Arg Met Ala
     487      50                 55                 60
     489 Glu Ser Leu Arg Ile Pro Glu Gly Pro Ile Asp Gln Gly Thr Ala Thr
     490  65                 70                 75                 80
     492 Gly Arg Val Arg Val Leu Glu Glu Gln Leu Val Lys Ala Lys Glu Gln
     493              85                 90                 95
     495 Ile Glu Asn Tyr Lys Lys Gln Ala Arg Asn Asp Leu Gly Lys Asp His
     496             100                105                110
     498 Glu Ile Leu Arg Arg Arg Ile Glu Asn Gly Ala Lys Glu Leu Trp Phe
     499             115                120                125
     501 Phe Leu Gln Ser Glu Leu Lys Lys Leu Lys Lys Leu Glu Gly Asn Glu
     502     130                135                140
     505 Leu Gln Arg His Ala Asp Glu Ile Leu Leu Asp Leu Gly His His Glu
     506 145                150                155                160
     508 Arg Ser Ile Met Thr Asp Leu Tyr Tyr Leu Ser Gln Thr Asp Gly Ala
```

COPY

```
509                    165               170               175
511 Gly Glu Trp Arg Glu Lys Glu Ala Lys Asp Leu Thr Glu Leu Val Gln
512           180               185               190
514 Arg Arg Ile Thr Tyr Leu Gln Asn Pro Lys Asp Cys Ser Lys Ala Arg
515       195               200               205
517 Lys Leu Val Cys Asn Ile Asn Lys Gly Cys Gly Tyr Gly Cys Gln Leu
518       210               215               220
520 His His Val Val Tyr Cys Phe Met Ile Ala Tyr Gly Thr Gln Arg Thr
521 225               230               235               240
523 Leu Ile Leu Glu Ser Gln Asn Trp Arg Tyr Ala Thr Gly Gly Trp Glu
524           245               250               255
526 Thr Val Phe Arg Pro Val Ser Glu Thr Cys Thr Asp Arg Ser Gly Leu
527           260               265               270
529 Ser Thr Gly His Trp Ser Gly Glu Val Lys Asp Lys Asn Val Gln Val
530       275               280               285
532 Val Glu Leu Pro Ile Val Asp Ser Leu His Pro Arg Pro Pro Tyr Leu
533       290               295               300
535 Pro Leu Ala Val Pro Glu Asp Leu Ala Asp Arg Leu Leu Arg Val His
536 305               310               315               320
538 Gly Asp Pro Ala Val Trp Trp Val Ser Gln Phe Val Lys Tyr Leu Ile
539           325               330               335
541 Arg Pro Gln Pro Trp Leu Glu Arg Glu Ile Glu Glu Thr Thr Lys Lys
542           340               345               350
544 Leu Gly Phe Lys His Pro Val Ile Gly Val His Val Arg Arg Thr Asp
545       355               360               365
547 Lys Val Gly Thr Glu Ala Ala Phe His Pro Ile Glu Glu Tyr Met Val
548       370               375               380
550 His Val Glu Glu His Phe Gln Leu Leu Glu Arg Arg Met Lys Val Asp
551 385               390               395               400
553 Lys Lys Arg Val Tyr Leu Ala Thr Asp Asp Pro Ser Leu Leu Lys Glu
554           405               410               415
556 Ala Lys Thr Lys Tyr Ser Asn Tyr Glu Phe Ile Ser Asp Asn Ser Ile
557           420               425               430
559 Ser Trp Ser Ala Gly Leu His Asn Arg Tyr Thr Glu Asn Ser Leu Arg
560           435               440               445
562 Gly Val Ile Leu Asp Ile His Phe Leu Ser Gln Ala Asp Phe Leu Val
563       450               455               460
565 Cys Thr Phe Ser Ser Gln Val Cys Arg Val Ala Tyr Glu Ile Met Gln
566 465               470               475               480
568 Thr Leu His Pro Asp Ala Ser Ala Asn Phe His Ser Leu Asp Asp Ile
569           485               490               495
571 Tyr Tyr Phe Gly Gly Gln Asn Ala His Asn Gln Ile Ala Val Tyr Pro
572           500               505               510
574 His Gln Pro Arg Thr Lys Glu Glu Ile Pro Met Glu Pro Gly Asp Ile
575       515               520               525
577 Ile Gly Val Ala Gly Asn His Trp Asn Gly Tyr Ser Lys Gly Val Asn
578       530               535               540
580 Arg Lys Leu Gly Lys Thr Gly Leu Tyr Pro Ser Tyr Lys Val Arg Glu
581 545               550               555               560
```

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    583 Lys Ile Glu Thr Val Lys Tyr Pro Thr Tyr Pro Glu Ala Glu Lys
E--> 584                     565                 570                      575

    587 <210> SEQ ID NO: 8
    588 <211> LENGTH: 575
    589 <212> TYPE: PRT
    590 <213> ORGANISM: Mus musculus
    592 <400> SEQUENCE: 8
    593 Met Arg Ala Trp Thr Gly Ser Trp Arg Trp Ile Met Leu Ile Leu Phe
    594   1               5                  10                  15
    596 Ala Trp Gly Thr Leu Leu Phe Tyr Ile Gly Gly His Leu Val Arg Asp
    597                  20                  25                  30
    599 Asn Asp His Pro Asp His Ser Ser Arg Glu Leu Ser Lys Ile Leu Ala
    600              35                  40                  45
    602 Lys Leu Glu Arg Leu Lys Gln Gln Asn Glu Asp Leu Arg Arg Met Ala
    604          50                  55                  60
    606 Glu Ser Leu Arg Ile Pro Glu Gly Pro Ile Asp Gln Gly Thr Ala Thr
    607  65                  70                  75                  80
    609 Gly Arg Val Arg Val Leu Glu Glu Gln Leu Val Lys Ala Lys Glu Gln
    610                  85                  90                  95
    612 Ile Glu Asn Tyr Lys Lys Gln Ala Arg Asn Gly Leu Gly Lys Asp His
    613              100                 105                 110
    615 Glu Ile Leu Arg Arg Arg Ile Glu Asn Gly Ala Lys Glu Leu Trp Phe
    616              115                 120                 125
    618 Phe Leu Gln Ser Glu Leu Lys Lys Leu Lys His Leu Glu Gly Asn Glu
    619              130                 135                 140
    621 Leu Gln Arg His Ala Asp Glu Ile Leu Leu Asp Leu Gly His His Glu
    622 145                 150                 155                 160
    624 Arg Ser Ile Met Thr Asp Leu Tyr Tyr Leu Ser Gln Thr Asp Gly Ala
    625              165                 170                 175
    627 Gly Asp Trp Arg Glu Lys Glu Ala Lys Asp Leu Thr Glu Leu Val Gln
    628              180                 185                 190
    630 Arg Arg Ile Thr Tyr Leu Gln Asn Pro Lys Asp Cys Ser Lys Ala Arg
    631              195                 200                 205
    633 Lys Leu Val Cys Asn Ile Asn Lys Gly Cys Gly Tyr Gly Cys Gln Leu
    634          210                 215                 220
    636 His His Val Val Tyr Cys Phe Met Ile Ala Tyr Gly Thr Gln Arg Thr
    637 225                 230                 235                 240
    639 Leu Ile Leu Glu Ser Gln Asn Trp Arg Tyr Ala Thr Gly Gly Trp Glu
    640              245                 250                 255
    642 Thr Val Phe Arg Pro Val Ser Glu Thr Cys Thr Asp Arg Ser Gly Leu
    643              260                 265                 270
    645 Ser Thr Gly His Trp Ser Gly Glu Val Asn Asp Lys Asn Ile Gln Val
    646          275                 280                 285
    648 Val Glu Leu Pro Ile Val Asp Ser Leu His Pro Arg Pro Pro Tyr Leu
    649          290                 295                 300
    651 Pro Leu Ala Val Pro Glu Asp Leu Ala Asp Arg Leu Leu Arg Val His
    652 305                 310                 315                 320
    654 Gly Asp Pro Ala Val Trp Trp Val Ser Gln Phe Val Lys Tyr Leu Ile
    655              325                 330                 335
```

```
657 Arg Pro Gln Pro Trp Leu Glu Lys Glu Ile Glu Glu Ala Thr Lys Lys
658             340         .         345                 350
660 Leu Gly Phe Lys His Pro Val Ile Gly Val His Val Arg Arg Thr Asp
661         355                 360                 365
663 Lys Val Gly Thr Glu Ala Ala Phe His Pro Ile Glu Glu Tyr Met Val
664     370                 375                 380
666 His Val Glu Glu His Phe Gln Leu Leu Ala Arg Arg Met Gln Val Asp
667 385                 390                 395                 400
669 Lys Lys Arg Val Tyr Leu Ala Thr Asp Asp Pro Thr Leu Leu Lys Glu
670             405                 410                 415
672 Ala Lys Thr Lys Tyr Ser Asn Tyr Glu Phe Ile Ser Asp Asn Ser Ile
673             420                 425                 430
675 Ser Trp Ser Ala Gly Leu His Asn Arg Tyr Thr Glu Asn Ser Leu Arg
676             435                 440                 445
678 Gly Val Ile Leu Asp Ile His Phe Leu Ser Gln Ala Asp Phe Leu Val
679     450                 455                 460
681 Cys Thr Phe Ser Ser Gln Val Cys Arg Val Ala Tyr Glu Ile Met Gln
682 465                 470                 475                 480
684 Thr Leu His Pro Asp Ala Ser Ala Asn Phe His Ser Leu Asp Asp Ile
685             485                 490                 495
687 Tyr Tyr Phe Gly Gly Gln Asn Ala His Asn Gln Ile Ala Val Tyr Pro
688             500                 505                 510
690 His Lys Pro Arg Thr Glu Glu Glu Ile Pro Met Glu Pro Gly Asp Ile
691             515                 520                 525
693 Ile Gly Val Ala Gly Asn His Trp Asp Gly Tyr Ser Lys Gly Ile Asn
694     530                 535                 540
696 Arg Lys Leu Gly Lys Thr Gly Leu Tyr Pro Ser Tyr Lys Val Arg Glu
697 545                 550                 555                 560
699 Lys Ile Glu Thr Val Lys Tyr Pro Thr Tyr Pro Glu Ala Glu Lys
E--> 700             565                 570                      575
```

```
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2298 <211> LENGTH: 235
2299 <212> TYPE: PRT
2300 <213> ORGANISM: Homo sapiens
2302 <400> SEQUENCE: 64
2303 Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
2304   1                 5                 10                  15
2306 Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
.2307             20                  25                  30
2309 Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
2310         35                  40                  45
2312 Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
2313     50                  55                  60
2315 Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
2316 65                  70                  75                  80
2318 Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
2319             85                  90                  95
2321 Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
2322         100                 105                 110
```

Input Set : A:\seq list.txt
Output Set: N:\CRF4\04242006\J575261.raw

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 2324 Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
 2325         115             120                 125
 2327 Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
 2328     130             135                 140
 2330 Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
 2331 145             150                 155                 160
 2333 Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
 2334             165                 170                 175
 2336 Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
 2337         180                 185                 190
 2339 His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Thr
 2340         195                 200                 205
 2342 Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
 2343     210             215                 220
 2345 Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp
 2346 225             230                 235
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E-->

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/24/2006
PATENT APPLICATION: US/10/575,261   TIME: 16:15:43

Input Set : **A:\seq list.txt**
Output Set: **N:\CRF4\04242006\J575261.raw**   COPY

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:17; Line(s) 832
Seq#:74; Line(s) 2501
Seq#:75; Line(s) 2558
Seq#:76; Line(s) 2666

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/575,261

DATE: 04/24/2006
TIME: 16:15:43

COPY

Input Set : A:\seq list.txt
Output Set: N:\CRF4\04242006\J575261.raw

```
L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:48 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:52 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:56 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:60 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:64 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:68 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:72 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:76 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:80 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:84 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:88 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:92 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:97 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:101 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:105 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:109 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:113 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:117 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:121 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:153 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
M:332 Repeated in SeqNo=2
L:208 M:252 E: No. of Seq. differs, <211> LENGTH:Input:376 Found:372 SEQ:2
L:584 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
L:700 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
L:1396 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:46
L:1529 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:48
L:1676 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:51
L:1786 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:53
L:2346 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:64
```